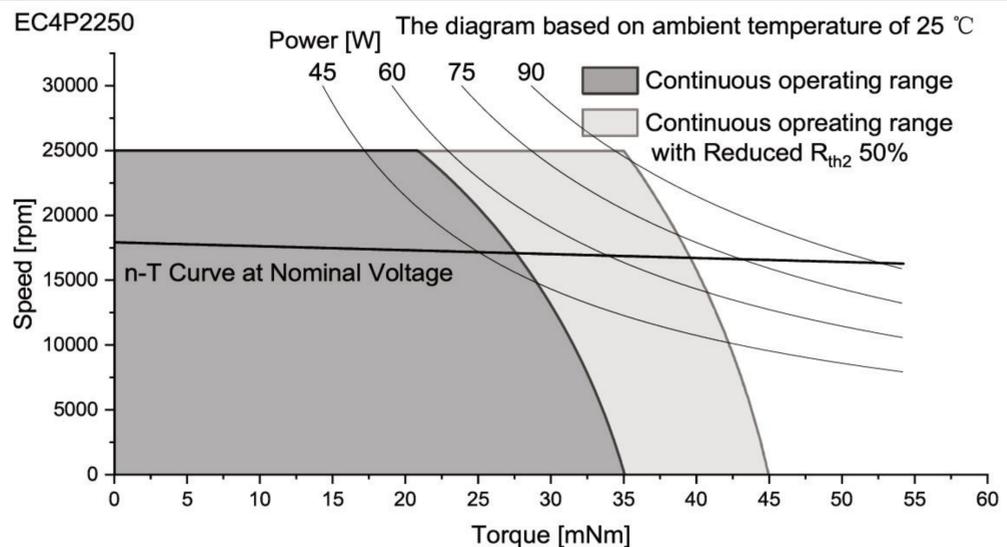


		EC4P2250L-...	EC4P2250S-...	2416	3616	4816
<b>Motor data</b>						
Sensorless		EC4P2250L-...	EC4P2250S-...	2416	3616	4816
With hall sensor		EC4P2250S-...	EC4P2250L-...	2416	3616	4816
<b>Values at nominal voltage</b>						
1	Nominal voltage	V		24	36	48
2	No load speed	rpm		16240	16133	16311
3	No load current	mA		250	170	110
4	Nominal speed	rpm		15493	15279	15621
5	Nominal torque	mNm		28	28	28
6	Nominal current	A		2.25	1.49	1.11
7	Stall torque	mNm		608.8	529.2	661.6
8	Stall current	A		43.64	25.17	23.76
9	Max. efficiency	%		85.4	84.2	86.9
10	Terminal resistance	$\Omega$		0.55	1.43	2.02
11	Terminal inductance	mH		0.05	0.12	0.19
12	Torque constant	mNm/A		14.03	21.16	27.97
13	Speed constant	rpm/V		681	451	341
14	Speed/torque gradient	rpm/mNm		27	30	25
15	Mechanical time constant	ms		1.7	1.9	1.5
16	Rotor inertia	gcm <sup>2</sup>		5.98	5.98	5.98

17	Thermal resistance housing-ambient	12.7 K/W
18	Thermal resistance winding-housing	3.5 K/W
19	Thermal time constant winding	8 s
20	Thermal time constant motor	780 s
21	Ambient temperature	-30...+100°C
22	Max. permissible winding temperature	+150°C
23	Max. permissible speed	25000 rpm
24	Axial play at axial load	<4 N 0 mm >4 N max. 0.3 mm
25	Radial play	preloaded
26	Max. axial load (dynamic)	3.5 N
27	Max. force for press fits (static)	44 N
	(static, shaft supported)	1200 N
28	Max. radial loading, 5mm from flange	15 N
29	Number of pole pairs	2
30	Number of phases	3
31	Weight of motor	119 g

**Operating Range**



**Connection**

Conection A (Sensor)		PTFE	
Pin 1	Vhall 3-18 VDC	AWG26	Red
Pin 2	Hall sensor HA	AWG26	Yellow
Pin 3	Hall sensor HB	AWG26	Blue
Pin 4	Hall sensor HC	AWG26	Green
Pin 5	GND	AWG26	black
Pin 6	Motor winding MA	AWG20	Yellow
Pin 7	Motor winding MB	AWG20	Blue
Pin 8	Motor winding MC	AWG20	Green

Conection B (Sensorless)		PTFE	
Pin 1	Motor winding MA	AWG20	yellow
Pin 2	Motor winding MB	AWG20	green
Pin 3	Motor winding MC	AWG20	blue

**Configuration**

Performance: Customized in the continuous operating range  
Ball bearing: Preload  
Flange: Standard frange front&back/customize the frange  
Shaft: Length/Diameter/Cut face/double shaft/hollow shaft  
Leadwire: PVC/Silicon/Teflon/UL No/Dimension/length  
Connector: JST/MOLEX/TE